

CLAIMS

1/ A fluid dispenser comprising:

a fluid reservoir (1);

at least one dispensing orifice through which the
5 fluid is dispensed;

a fluid feed duct (12) leading from the reservoir
(1) towards the dispensing orifice, said duct being
provided with an inlet and with an outlet;

a valve (31, 61) for selectively closing off the
10 feed duct, said valve comprising a moving valve member
(31) mounted to move between a passageway-closure
position and a passageway-opening position, the moving
valve member being mounted to be moved in translation
along a valve axis, the moving valve member (31) coming
15 into leaktight abutment against a fixed valve seat
(61), formed at the outlet of the feed duct (12), when
in the passageway-closure position, and remaining away
from said seat when in the passageway-opening position;

said fluid dispenser being characterized in that
20 it further comprises an outlet channel (32) formed by a
sleeve (33) connecting the outlet of the duct (12) to
the dispensing orifice, said sleeve having an
elastically deformable segment (34), said moving valve
member being situated inside said channel, said
25 elastically-deformable segment urging the moving valve
member into the passageway-closure position.

2/ A dispenser according to claim 1, in which said
sleeve has a connection end (341) mounted on the duct
30 and a moving dispensing end (35) connected to the
connection end through said deformable segment (34).

3/ A dispenser according to claim 1, further comprising actuating means (41, 42) for moving the moving valve member (31) into its passageway-closure position, said actuating means being electromagnetic means.

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4/ A dispenser according to claim 1, in which the actuating means comprise a fixed element (41) and a moving element (42) pushed away from the fixed element when fed with current, said moving element being
10 constrained to move with the outlet channel.

5/ A dispenser according to claim 4, in which the fixed element is constrained to move with the connection end and the moving element is constrained to move with the
15 dispensing end.

6/ A dispenser according to claim 2, in which the moving valve member is constrained to move with the dispensing end.

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7/ A dispenser according to claim 2, in which the moving dispensing end (35) forms means for receiving a piece of porous material (30) urged away from said at least one dispensing orifice by the elastically
25 deformable segment (34).

8/ A dispenser according to claim 7, in which the sleeve is formed by a support piece (3) provided with an elastically deformable diaphragm (36) having an
30 outer peripheral edge (361) that is held in fixed manner, said diaphragm (36) moving the moving member (31) and the piece of porous material (30) in translation axially.

9/ A dispenser according to claim 8, in which the support piece is made integrally as a single piece.

5 10/ A dispenser according to claim 2, in which the sleeve has a substantially rigid segment (37) disposed between the dispensing end and the elastically deformable segment.

10 11/ A dispenser according to claim 10, in which the moving valve member is constrained to move with the rigid segment.

12/ A dispenser according to claim 1, in which the
15 moving valve member and the sleeve are made integrally as a single piece.

13/ A dispenser according to claim 1, further comprising a vibratory plate (2) that generates
20 vibration in the fluid, said plate advantageously being vibrated by a piezoelectric element.

14/ A dispenser according to claim 13, in which said at least one dispensing orifice (22) is formed through the
25 vibratory plate (2).